

SEQUENCE LISTING

<110> Chromatin, Inc.

<120> PLANTS MODIFIED WITH MINI-CHROMOSOMES

<130> 30844/30003A

<150> 60/547,256

<151> 2004-02-23

<160> 52

<170> PatentIn version 3.3

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<212> DNA

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 <213> Drosophila melanogaster

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<212> DNA

<213> *Drosophila melanogaster*

<400> 5

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<210> 10

<211> 1999

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 10

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cgaactataa ttaactaaa

1999

<210> 11

<211> 2001

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 11

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 tttaaacagc agaacttaac tcactcatca cgctgtttcc gctgaatttt ctcaaaaatat 1920
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<210> 12

<211> 2000

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 12

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aaccatagc aactcataaa 2000

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<210> 13
<211> 2001
<212> DNA
<213> Saccharomyces cerevisiae

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<400> 13
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cttaacaaga aaccaattat taaaggctta cttactgata gtagatcaac gatcagtata 900

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<210> 14
<211> 2001
<212> DNA
<213> Saccharomyces cerevisiae

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<400> 14
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<210> 15

<211> 2001

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 15

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<210> 16
 <211> 2000
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 17

<211> 2001

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 17

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<210> 18

<211> 1999

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 18

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<210> 19
<211> 1999
<212> DNA
<213> Saccharomyces cerevisiae

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<210> 20

<211> 2009

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 20

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<210> 21
 <211> 1943
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<400> 21
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<210> 22
<211> 2001
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 22
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tctgttaacg	acaatcaaat	aacctgatct	gccaaggctc	catcatatct	ggcctagaac	1740
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tgtgaaaaaa	aaaaaaaaag	attataaaaag	gtcagcgaag	cacagaactc	tgagataaga	1920
ctacctttct	ttagctaggg	gagaatattc	gcaattgaag	agctcaaaag	caggtaacta	1980
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<210> 23

<211> 1999

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 23

tcctaaggac	atattccgtt	cgtacttgag	ttattggatc	tatgaaatcg	ctcgcctatac	60
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tgacaacgaa	gcttggtgtt	tcaattctgc	aatatttgct	ttactttctc	ttgtaggtht	180
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gctthtttagtg	gatgtcatca	cacgtaaacc	ggcggtagaa	gggaaagaat	ggaggatcat	300
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gatcgaacga	caagctcagg	aaaattactg	gcgaaggcgg	catcccaata	tcgatgcgct	600
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tgagcgtatt tatttgataa cggtttacgt aactggttga ataaaaatca actatcatct 1260
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 atcagcatca gcacacgac tagagtcacg ggcgcggcgg tccgcgggtca tccccgcgga 1860
 ctttccgtcc gcccggcggg ctgtatcagc gtcaactgga acgcgcatat atatacaaga 1920
 cacacataac atagaagcac acccagcaca ataaccacac gacaataacc acaccgccc 1980
 acccctcctt tccgtatac 1999

<210> 24
 <211> 91
 <212> DNA
 <213> Glycine max

<400> 24
 aaawtcaaac gacaataact tttkactcgg atgtccgatt gwggtcccgta rtatatcgag 60
 acgctcgwaa ttgaaaacwg aagctctrag m 91

<210> 25
 <211> 92
 <212> DNA
 <213> Glycine max

<400> 25
 aaattcaaact ggtcataact tttmacwcgg akgtccgatt caggcgcata atatatcgag 60
 acgctcgaaa ttgaacaayg gaagctctcg ag 92

<210> 26
 <211> 91
 <212> DNA
 <213> Glycine max

<400> 26
 aaattcaaact gacaataact ttttactcgg atgtcgygatt gagtcccgta atatatcgag 60
 acgctcgaaa ttgaatrytg aagctctgag c 91

<210> 27

<211> 266
 <212> DNA
 <213> Brassica oleraceae

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (242)..(242)
 <223> n = a, c, g, or t

<400> 27
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 gtagccgttt ctccaggctcc ctctccggaa tcgaacccta attctccgtc acccggtacc 180
 accatggtag gccactatcc taccatcgaa agttgatagg gcagaaattt gaatgatgcg 240
 tngccagcac taaggccatg cgatcg 266

<210> 28
 <211> 345
 <212> DNA
 <213> Brassica oleraceae

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n = a, c, g, or t

<400> 28
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 tcctatgagt tttattcaac ttctgtgtga ttctccacca ctttatgtat ccaaatacaag 120
 cttcttaciaa agtgattcat cctgggttga ttggaacgac gaacaagttg tgctattccc 180
 aaacttgga actggaatca cctgacttga aagtgggata acttcttcat cccaactcct 240
 atgagattta ttcaacttcc tgggtgattct ccaccacttt atgtatccaa atcaagcttc 300

ttacaaagtg attcattctg gtttggttg aacgacgaag aagcg 345

<210> 29
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 29
ggtggtcggc cggagcacia gcgggccaag cccatgcttg 40

<210> 30
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 30
ggtggtcggc cgcaggttg atatgaatct ttaactgaca g 41

<210> 31
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 31
ggtggtcggc cgcagcaca agcgggcca gcccattgctt g 41

<210> 32
<211> 42
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 32
ggtggtcggc cgtcaggttg catatgaatc ttaactgac ag 42

<210> 33
<211> 39
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 33
ggtggtcggc cgtcgtcggc acttggcagc gaaatctcc 39

<210> 34
 <211> 42
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 34
 ggtggtcggc cgcattatca tataattatg ttttgcgtgc tc 42

<210> 35
 <211> 38
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 35
 ggtggtcggc cgcgtcggca cttggcagcg aaatctcc 38

<210> 36
 <211> 41
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 36
 ggtggtcggc cgattatcat ataattatgt tttgcgtgctt c 41

<210> 37
 <211> 105
 <212> DNA
 <213> Lycopersicum

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n = a, c, g, or t

<400> 37
 accaaatttg ttcgtggnac gtcctcaana cgttgtctat gcatacgggtt ggccatcacg 60

gcctttccga cccatttgga aggtcaaacg aacccogaag tgagc 105

<210> 38
 <211> 105
 <212> DNA
 <213> Lycopersicum

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<220>
<221> misc_feature
<222> (40)..(40)
<223> n = a, c, g, or t

<400> 38
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gacgattttc gtgtgctatt gcacaccatt ttttgggtga tcgag 105

<210> 39
<211> 256
<212> DNA
<213> Lycopersicum

<400> 39
gtaacgacct gtttagtcgt tttgagcagc agatttttatt tctggaaaaa caggctgaga 60
cgacggaaac cacgacggac cgtcatgggc acgacggacc gtcgaggggg tctcgttcca 120
aaacacttag aattctgaaa tttgggtact gaaatcgact ctctgaactt cgtgaagaag 180
tggcaggacg gaccgtcgtg ggcacgacgg accgtcacag gcccttcaat aatttcagtc 240
tctgaactct gtgacg 256

<210> 40
<211> 574
<212> DNA
<213> Plant Telomere probe

<400> 40
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ggtttagggg ttagggttta ggggttaggg tttagggttt aggggttagg gtttaggggt 180
taggggttag ggttaggggt ttagggttta ggggttaggg tttagggttt aggggttagg 240
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gggttagggg tttagggttt aggggttagg gtttaggggt taggggttag ggttaggggt 480
ttagggttta ggggttaggg tttagggttt aggggttagg gtttaggggt taggggttag 540
gtgagcccg gtttaaaccg ccgggccgtc gacc 574

<210> 41
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

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<400> 41
 aggcgcgcca cctgcaggag agctcgggtct catcgagaca c 41

<210> 42
 <211> 34
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 42
 ggtcgacggc ccgggcgttt aaacccgggc tcac 34

<210> 43
 <211> 155
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n = a, c, g, or t

<400> 43
 gttnttgctg tttgaatttg ctgagnacct tcaacattca atttcgagcg tctcgatata 60
 ttacgggact taatcagaca atcgagtaaa aagttattgt cgtttgaatt tgctcagagc 120
 ttctgttttc aattacgagc gtctcgatat attac 155

<210> 44
 <211> 167
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature

<222> (39)..(39)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (96)..(96)
 <223> n = a, c, g, or t

<400> 44
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 tcganaaatt caaatgggtca taactttcca cacggnaggt tagattcaag cgcataatat 120
 atagagaagc tcgaaatata acaactaaag ctctcgcgaa attcaaa 167

<210> 45
 <211> 216
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n = a, c, g, or t

<400> 45
 ggcagagttt ttgggtttttt catgttgtca aagnagttga acaatgaaaa tggatgacta 60
 gtgcctgatc gaattgatcg gatcatgtag gaacaagggt caagtctacc ggtctgttag 120
 gatgcctcag ctgcatacat cactgcactt ccacttgaca cctatcatta attagaaacg 180
 gctcgtctcg ccgtgacctt ctcttgaatt ctcaaa 216

<210> 46
 <211> 605
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (368)..(368)
 <223> n = a, c, g, or t

<400> 46
 ggtgttgggc ctttaaaaat gatcctttta acttggtgaag aaaagctgag ataaaacttt 60
 caaatctttt ttttagtgatt ttttggtgga cgagcttgac ttggcgaatt gatttttagcc 120


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ttagtttcgc tttagttatt agtcaattca attaagaatg ataaatccca aagagaaaat 180
gtccgattga tttttgtgct tcattttact aaaagatatt cttttgatta ttatattatt 240
attttacctc tttttttgat ttccaacgtg gttacggcac gaccgagcgg ttggaactcc 300
ttttaacaga aattaatgaa tactacaatt caaatgatcg atggaaattt attttatttt 360
tagattangc gcgaaatgac ttaaataaat gactgaagca tgtcaaaagg gggatatggaa 420
agtaatgaaa ataagaataa aaatacatga aacacaatgt ggaccactac gggtagatag 480
aatgaatcga aaagcttggt tcgaggtact taccggttga agatcgaaga acgatgaaga 540
acgaatgaag aacgtcgaag aacgattgaa agctttgcga gattcctcac gggaaaacgt 600
tacgg 605

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<210> 47
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

```

<400> 47
tgaacggcca cgagttcgag atcg 24

```

```

<210> 48
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

```

<400> 48
gtcctcgttg tgggaggtga tgtc 24

```

```

<210> 49
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

```

<400> 49
ctgccactcc atttccttct cggc 24

```

```

<210> 50
<211> 24
<212> DNA
<213> Artificial sequence

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<220>
<223> Synthetic probe

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<400> 50
 acttatccgg tcctagatca tcag 24

<210> 51
 <211> 176
 <212> DNA
 <213> Brassica oleraceae

<400> 51
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 gagttggcat gaagaagtta tcccmctttc aaatcagggtg attccagttt cccagtttgg 120
 gaatagcaca gcttcttcgt cgttccaatc aaaccaggat gaatctcttt gtaaga 176

<210> 52
 <211> 176
 <212> DNA
 <213> Brassica oleraceae

<400> 52
 accttcattt ggatacataa agtagtgkag aatcaccagg aagttgaata aatctcatag 60
 gagttaggat gaagaagtta tcccactttc aaataagggtg atcccagttt yectgtttgg 120
 gaatatgaca acttcttcgt cattctaadc aaaccaggat gaatckygat gtwaga 176